OTS: 60-31,417

3574

20 July 1960

ONOW

A MOST IMPORTANT STAGE IN THE DEVELOPMENT OF

AGRICULTURE IN THE USSR

incare to by D. Yakuhkin

wellow several action to service the tradelation diversion a project and to chear determine the

despiration of a.

19991008 148

Distributed by:

OFFICE OF TECHNICAL SERVICES U. S. DEPARTMENT OF COMMERCE WASHINGTON 25, D. C.

Best Available Copy Reproduced From

DISTRIBUTION STATEMENTA Approved for Public Release

> U. S. JOINT PUBLICATIONS RESEARCH SERVICE 205 EAST 42nd STREET, SULTE 300 NEW YORK 17, No Yo

FOREWORD

This publication was prepared under contract by the UNITED STATES JOINT PUBLICATIONS RE-SEARCH SERVICE, a federal government organization established to service the translation and research needs of the various government departments.

bedimilian moituainaid

Distribused by:

OFFICE OF TEOLETICAL SERVICES U. S. DEPARTMENT OF CONCERNE PASPINGTON 25, D. C. -{Pricor- \$0.75}

THE ST. LOUIS OF SHE SEE THOMAS OF THE SEE 205 July 1990 Charles 1995 NAME OF THE PARTY OF THE

JPR3: 3574 CGC: 2700-D/**23**

A MOST IMPORTANT STAGE IN THE DEVELOPMENT OF

UCCO AGRICULTURE IN THE USSR

/ Following is a translation of an article by D. Yakushkin in the Russian-language periodical Vestnik statistiki (Review of Stastics). Moscow, No. 12, 1959, pages 7-19.

ithe sun two sintering around interior . To enter a

The accelerated development of agriculture is of great significance in the construction of Communism in our country. Along with a powerful industry, the Soviet Union needs a rapidly growing agriculture with well-rounded development, capable of providing in abundance the population with food products and industry with raw materials.

In the not-too-distant past, during the period preceding the September (1953) Plenum of the Central Committee of the CPSU, the growth in agricultural production slowed down due to great shortcomings in the management of the kolkhozes and sovkhozes. A certain lack of conformity arose between the development of industry and agriculture, and between the country's requirements for agricultural products and the actual production output.

The shortcomings existing in the management of agriculture were boldly exposed at the September and subsequent plenums of the Central Committee of the party, and truely revolutionary measures were worked out for eliminating them and for further strengthening the kolkhoz system and developing sovkhozes. The Party organized a nation-wide struggle for a sharp upsurge in agriculture, for a sharp increase in the production of grain and animal products, and for an acceleration in the development of all branches of agriculture.

The efforts of the Party and of the whole Soviet people in the struggle for an upsurge in agriculture ended in an outstanding success. During the last 5 years a fundamental breakthrough has occurred in the development of agriculture and remarkable successes have been achieved.

"The successful realization of the planned program to increase the production of agricultural

products," said comrade N. S. Khruschev in a report at the Plenum of the Central Committee of the CPSU in December of last year, "was a great contribution to the further economic development of the Soviet state, to the strengthening of its might, and to an in-y d crease in the standard of diving of the Soviet solved people."

In the light of the successes achieved, it is impossible not to mention once more how remote from life was the anti-Party group of Malenkov, Kagano-vich, Molotov, Bulganin, and Shepilov, who opposed the vital interests of the people, tried to frustrate the fulfillment of the decisions of the September. Plenum of the Central Committee of the CPSU, and fought against the implementation of the line worked out at the 20th Congress of the CPSU in all the very important problems of domestic and foreign.

The results echieved during repent years in the field of the development of agriculture are an operation of the great is possibilities inherent in the socialist form of economy and of the rapid rates at which the socialist had need to economy can develop.

economy can develop. A fine restinging fine interesting the structure of adjunctions and the importance of the Growth in Socialist Crop Raising and the Increase in the Grain Harvests of all said to a spinostrode of the control of t

of egriculture more boldly exposed at the Septement It is well known that the weather conditions of individual years have a great effect on the level of agridultural production. For this reason a communication parison of the results of two agricultural years is not always sufficiently conclusive. That is why again average annual data for a longer perjod are especial quant ly interesting. If we compare the average annual offers and gross agricultural output during the medent of ive siego. ne so year plan periods, in comparable prices, we see that average annual gross agricultural output during 110 ed. 1954-1958 was 35 percent greater than during the picoud serves previous five-year period (1949-1953) and amounted a state of to 400.5 billion rubles. The average annual gross armond that output in crop growing increased from 182.8 billion ves rubles to 237.4 billion rubles, or by 30 percent and and and the gross output in animal husbandry increased from 114.4 billion rubles to 163.1 billion rubles, or by of managing 43 percent. The considerably greater rate of growth

in the output of animal products is an indication of important qualitative changes in the country's agricultural production, which has become more in a sold of intensive and skilled during recent years.

When starting to implement decisive measures for an upsurge in agriculture, the Party first worked on the problem of increasing the production of grain, told necessing reasoning that grain growing is the basis of agricultural production. Grain production in 1953 was far declar from satisfying the country's growing requirements oil [18 7.2] for grain. Actually, for a long time grain production is the had remained almost at the prerevolutionary level. I would be because and urgent measures were needed to increase with all grain resources. The most effective solution of this . problem was found in the development of the virgin athaemost and fallow lands. This work was carried out on an all asoroal unprecedented scale; During a short period, 195421103 recycled 1956, 36 million hectares of virgin land was plowed. The significance of this nation-wide achievement for agricultural production is apparent from the fact that in 1968, of the 66.6 million hectares sown with wheat in the country, 43.5 million hectares were in the basic regions of development of virgin and fallow land.

The changes in the distribution of grain production as the result of the development of virgin of and fallow lands are shown by the following data on the state grain procurements and purchases:

STATE PROCUREMENTS AND PHRCHASES OF GRAIN

Another important source for increasing grain production which played an important role in solving the grain problem was the increase in the production of corn.

In 1958, 8,1 million hectares were sown with corn for grain, 2.3 times the area sown in 1953; and the total sowing of corn for grain, silage, and green fodder was 5.7 times that of 1953 and amounted to 19.7 million hectares. The gross harvest of corn grain in 1958 was over a billion poods, with a yield, in terms of dry grain, of 20.6 centners per hectare. In many regions of the Ukraine, the Northern Caucasus, and Moldavia, corn was the deciding factor in increasing the gross harvest of grain. Data on the new means increase in the proportion of corn in the gross grain harvest follow: long arous a relief the above and and

.bewold a Gress Harvest of In Percent of Corn-Grain Gress Harvest of Gress Gress

CAS OF STATE

Northern Cautary 16 682 4,058 8,5 22.9 2 northern casus Regions; 682 4,058 8,5 22.9 28.7 Working SSR 1.981 8,986 1,249 29.2 29.53.0 411 Moldavian SSR

The gross harvest of grain crops also increased due to an increase in grain-crop yields. During 1949-1953, the average annual yield of grain crops was 7.7 centners per hectare; during the five-year period of 1954-1958 it had increased to 9.2 centners, and in 1958 the average annual yield of grain crops

was 11.3 centners per hectare.
As a result of the great work done by the Party during recent years, the gross harvest of grain in 1958 amounted to 141.2 million tons, 71 percent greater than the 1953 gross harvest. State procurements of grain amounted to 3.5 billion poods in 1958, 1 01000 of which 2 billion poods were procured in the regions of virgingland development. This was the first time that such a volume of grain production and procurement had been achieved in our country.

A regular increase in grain production, as

provided by the Seven-Year Plan, will continue to be a main line in crop growing in the future. However, the basic source for the further expansion in grain production at the present stage of agricultural development is not an expansion in sown area, as it has been in recent years, but an increase in the yield of grain. All of the recessors of grain. All of the necessary prerequisites have now been created for this. Achievement of the everage increase of 3-4 centners per hectare in the yield of grain crops called for by the Seven-Year Plan will ensure fulfillment and accompany to the seven-Year Plan will ensure fulfillment and overfulfillment of the tasks का जाब कर्ता वर्ष established by the plan for the gross harvest of Along with an increase in the production of grain, a regular increase in the gross harvests of other agricultural crops has also occured during of his action recent years in the USSR trad root unbrown and me notice our le THE AVERAGE ANNUAL GROSS HARVEST DURING THE TWO FIVE YEAR PLAN PERIODS -earlocky of (million tons) frode agoro lie ban . good Coll thought gall Average Annual Harvest to Blass dust besent glan word selines and during the 1954-1958 Joh deamin Lues gowcilabe to enclayerage Annual Harvest 1949-1953 1954-1958 100) correspondent Sugar beets 21.11 form 35.49 area war 1900 form a famous ogerown Raw cotton 21.3.49 14 .4.20 11 Baci 122ci all garrab modules so (procurements of the structure of new retwork shooting is and purchases) to revise \$2.20 of \$1.76 of the second shooting structure \$1.20 of the second shooting \$ 80[d. 32v has 200 stor 167 o sathfield for en of 2.05 200 has 42 100 of 010 los the tailded to 010 75.75 Sunflower seeds 75.75 83.43 Potatoes senoigos hadanous Vegetables 1110.0 associate of denoting 140 associated Stead berries --- 2.84 con 1.34 a 8381 159 (just evident expectation of the control of Great successes have been achieved during recent years in the production of sugar beets. During the past 5 years the area sown with sugar beets in R. d. oron

creased by almost a million hectares. The data on the

growth in the yield of sugar beets are interesting.
During 1928-1952 the average annual yield was 95
centures per hectare, and during 1954-1958 it was 174
centures; moreover, in 1958 the yield of sugar beets
was 218 centures per hectare.

Achievements in cotton growing have been considerable. During 1954-1958 the average annual procurement of raw cotton was 4 times that during 1928-1932. The country's cotton growers delivered or sold to the state 4.4 million tons of cotton in 1958. For a number of years the Soviet Union has been first in the world in cotton yield. In 1958 the yield of cotton fiber in the US was 5.3 centners per hectare; in Egypt it was 5.5 centners, and in Pakistan, 2.1 centners. In the USSR, state procurements and purchases of raw cotton on the average per hectare in 1958 amounted to 20.4 centners, which is approximately 7 centners in terms of fiber.

The great successes in the production of flax, hemp, and oil crops should be noted. State procurements of flax fibernduring the last 5-year plan were almost double those of the preceding 5-year plan. With the same sown area as 5 years earlier, the country harvested 4.6 million tons of sunflower seed in 1958. 2 million tons more than in 1953.

in 1958, 2 million tons more than in 1953.

Serious measures were needed to eliminate the lag in the production of potatoes and vegetables. Average annual state procurements and purchases of potatoes during the 1954-1958 Five-Year Plan period were 22 percent greater than procurements during the preceding Five-Year Plan. The gross harvest of vegetables was 14.9 million tons in 1958 as compared with 11.4 million tons in 1953. The most effective means for obtaining cheap potatoes and vegetables was the establishment of large specialized soykhozes in suburban regions.

There have been considerable successes during recent years in the development of orchards and vineyards. The area planted with fruit and berries (excluding citrus fruit) in 1958 was 789,000 hectares, or 36 percent greater than in 1952; and the area of vineyards was 399,000 hectares greater than in 1953, more than doubled.

Thus there have been outstanding successes in the development of all branches of socialist crop

growing during recent years. This is a matter not only of a great quantitative growth, but also of great structural shifts signifying rapid progress in agri-along with cultural production. The most important element in a way police these deep qualitative changes was the growth in blow Leanne animal husbandry. or het mornie of 834f of the gillbases paceroat bilegrams as compared puth 1.016 kilomrements 1933. The Upsurge in Collective Animal Husbandry and out account

The decisions of the September (1953) plenum it a same of the Central Committee of the CPSU opened the path of the Central Committee of the CPSU opened the path bayer for a rapid upsurge in the most complicated branch of agriculture, manimal husbandry. In the program for the Lador development of animal husbandry planned by the Party's 10 blois Central Committee, the goals for a further growth in animal husbandrywere considered as indissolubly connected with the general problems in the upsurge of dana era ni agriculture, primarily with the solving of the task town in : No.Lon

of increasing grain production.

The cornerstone of this program, the condition without which it would have been impossible one to have any kind of complete utilization of the great possibilities for increasing the output of animal husbandry products, was the strengthening of the fodder base. During 5 years, from 1953 to 1958, the area sown with fodder crops increased from 28.7 million hectares to 46.5 million hectares. The area sown with grain-forage crops increased by 4.2 million hectares. the area sown with silage crops increased by 5.8 million hectares, and the area sown with grasses increased by 12.3 million hectares. It should be noted that the rapid growth in the production of fodder was of first of all due to the

successes in the cultivation of corn. This was why it was possible to increase the storage of silage in a ni di way

olitat

evo

chive

Skeep

kolkhozes and sovkhozes. The workhozes and sovkhozes stored 32 mg and no million tons of silage, but in 1958 the amount of plong was million tons of silage; but in 1958 the amount of slow was silage stored increased to 148 million tons, including solves ing 107.5 million tons of the highest-quality silage; redsolves -- corn. The volume of silage stored in kolkhozes and as sorod sovkhozes per cow was 10.6 tons, 17.4 tons more than ames one in 1953. - Blow al decorde 88 gd bus established in Theoret

The growth in the procurement of silage was bon was on a decisive factor in the expansion in the production the expansion in the production servent of the total number of cattle, and natur of milk and in the increase in the productivity of dairy animal husbandry. For a number of years the milk yield in kolkhozes had ranged around a thousand kilograms per cow. Beginning in 1954, the average annual yield of milk per cow in kolkhozes began to increase steadily, and in 1958 it amounted to 1,913 kilograms as compared with 1,016 kilograms in 1953. Almost 25,000 kolkhozes, over 1/3 of all the kolkhozes, achieved average yields of over 2,000 kilograms of milk per cow. Even greater productivity was achieved in sovkhozes. With an average yield of 2,256 bit kilograms of milk per cow in sovkhozes, 1/6 of the total number of sovkhozes achieved an average annual yield of over 3,000 kilograms.

A very important indicator of the successes and in the development of animal husbandry is the increase function in the number of livestock. The changes in the number of productive livestock during recent years is shown below:

-nos lody program program, who con-GROWTH IN THE NUMBER OF PRODUCTIVE LIVESTOCK IN A LITTLE BETWEEN 1 JANUARY 1954 AND 1 JANUARY 1959 VALUE VALUE OF Juntuo (million head) act bus id dissing deoug dereal bushodry products, was the stranger author of . bull of Elek moraleseind . eless the end 7.6 1954 1959 TELOVER 1954 DEST (1954 = 100) TE ONT Cattle 76 25 2 70 33 3 1 W 8.1 Wood name an 32 1 1 Late of until Cows 10033.37 48.7 bus 15.4 you got fill 146.2 Ad because Swine 11 -99.8 129.9 11 1 m30.11 yd teese 130.2 oe car ne id Sheep nd divers high and their secon of fibers

A distinctive peculiarity of the development of noise of animal husbandry during recent years is that the growth in collective animal husbandry in kolkhozes is that the growth in collective animal husbandry in kolkhozes is and sovkhozes has considerably outstripped the growth modified in the number of livestock in all categories of farms as a whole. While the number of cowsdin all cate—and noise gories of farms as 1 January 1959 was 32 percent greater than on 1 January 1954, the number in Kolk—and hozes and sovkhozes was 46 percent greater; during the percent in all categories and by 83 percent in kolk—and hozes and sovkhozes. During the prewar years (1938) and the cattle in kolkhozes and state farms comprised 36 is a percent of the total number of cattle, and swine

comprised 35 percent. At the beginning of 1959 collectively owned livestock in kolkhozes and state farms comprised 59 percent of the total for cattle and 69 percent of the total for swine.

The growth in the number of livestock along with the increase in livestock productivity brought about an increase in the production of meat during recent years. In 1958 meat production was 1.9 million tons greater than in 1953. In the Soviet Union 37 kilograms of meat are now being produced per capita as compared with 31 kilograms in 1953.

The problem of increasing meat production is a most difficult one. Great efforts and a comparatively module long time are required to solve it. In achieving a growth in the production of meat the Party devoted as special attention to the development of the branches of animal husbandry with the most early maturing the raising of Swine and poultry. With a total growth in meat production in 1957 of 57 percent over 1940, the production of pork increased by 94 percent and that of puultry meat increased by 102 percent. The production of beef and mutton also increased during these years. However, a further growth in the production of these products depends on an increase in the number of cattle and sheep, which requires a long period.

It is interesting to note the qualitative charges which have occurred in sheep raising. As the result of the increase in the number of fine-fleeced sheep in kolkhozes and sovkhozes from 6.8 million in 1953 to 14.1 million in 1957, the amount of fine wool produced increased from 310,000 centners to 728,000 centners. While in 1953 only 14 percent of the total production of sheep's wool was fine wool, in 1958 fine wool comprised 29 percent of the total production of sheep's wool.

The growth in the production of basic animal products during the 1954-1957 Five-Year Plan is as follows:

PRODUCTION OF ANIMAL PRODUCTS (1,000 TONS)

1958 1953 1958 (1953 = 100)

Meat and fat (slaughter 5,822 7,675 132 (0001-3001) weight?

tion cartific and misself out the frequencing the landing 41958 ANOT 1958 AT SAC 11958 TO BEYON VERY TOOK Mind action of Lord ent to descrip to Linimate terms .3,262 Tot. 1:142 Det to (moore es 2,305 Pork 360. 8 36747511 58,770 and 6 161 Alvora eff Milk Affinitived the 1835 on the 1832 of novill 186 estimated out of the Wool Eggs (million units) ser logar laterboxe and ninesegreni de trade 01.11000.16.05900123.0540. decom 144 (al. . expay dueo vi Tons greater what in 1985. The wie Sofiet Union OV The growth in the production of animal products brought about an increase in the volume of state procurements. Also, while some time ago deliveries from kolkhozniks workers and employees farms predominated in state procurements of animal products (which to fine the process of the state of course did not providera stable base for supplying the country), how the basic suppliers of animal products a day or a are the kolkhozes and sovkhozes. In 1958 their share in the total procurements was 84 percent for meat, and the 89 percent for milk, and 57 percent for eggs of larger than has diseased as My headeastruck wind be not leadered being Strengthening the Material-Technical Base in Agrition of Jack 36 tros bomiorcar dela mondes del Avid To na abstract culture tore all all decorp restautes a restaur server as escur The Communist Party has devoted great attention during recent years to strengthening the materialtechnical base in agriculture. Total capital investments by the state and kolkhozes in agriculture during 1954-1958 amounted to 209 billion rubles, considerably exceeding capital investments for these same purposes during the whole preceding 36 years, which amounted in comparable prices, to 189 billion for the Remandance Con USA or Granifica Con Old mont becoment The growth in capital investments in the country's agriculture, in comparable prices, during the postwar period is apparent from the following of hostingers data: Lumini observation and Observat were CAPITAL INVESTMENTS IN AGRICULTURE (BILLION SE RED DE OTE

by the state and by kolkhozes

RUBLES)

Fourth (% 3001) 3001 E001 Five-Year Plan (1946-1950) 3701 670,56.000.3 months (1946-1950) Five-Year Plan Internet AT of Buel mi Coppyre a mair focusings. (1951-1955)equal the second in $\mathbf{s}_{\mathbf{q}}^{\mathbf{3}} \cdot \mathbf{s}_{\mathbf{q}}^{\mathbf{3}}$ and the second form 1956 Environtial in the content of the co 1957 io relabrica ov 50.4 1958 To able salared of our The value of fixed production capital of socialist agricultural enterprises (according to a balancesheet evaluation without deducting the value of depreciation) at the end of 1957 amounted to 248.9 billion rubles, an increuse of almost 100 billion rubles over 1953. In 1958 agricultural power capacity amounted and actions to 138.1 million h.p. as compared with 87.8 million h.p. in 1953 and 47.5 million h.p. in 1940. In 1958, in kolkhozes, machine-tractor stations, and sovkhozes, there was 4.4 h.p. per worker as compared with 1.5 h.p. in 1940. Consumption of electric power in agricultural increased from 538 million kw-hrs in 1940 and 2,742,000,000 kw-hrs in 1953 to 3,842,000,000 kw-hrs in 1958. in 1958. At the end of 1958 there were 1,744,000 tractors (in terms of 15 h.p.) as compared with 1,239,000 in wt oldie 1953. The number of grain combines increased during these years from 318,000 to 500,000; the number of trucks increased from 424,000 to 700,000. The number of other agricultural machines also increased sharply. antid st neid The growth in the number of tractors and machines was the direct result of the expansion of tractor building and agricultural machine building. In 1953 the country produced 111,300 tractors (in units), and in 1958 it produced 219,700. The growth in the production of row-crop tractors, being used more and more extensively, is of especially great importance. The production of row-crop tractors increased from 26,500 in 1953 to 113,600 in 1958. In 1953 industry produced only 500 corn-harvesting combines, and did not produce any silage-harvesting comcombines amounted to 31,400, and of silage-harvesting While in 1953 only 4,000 beet combines were operating in the kolkhoz and sovkhoz fields, in 1957 combines, to 54,800. there were already 28,500. Thanks to this, the share

an contra al conta 729.7 vo for sevied areas across to

of sugar beets harvested by combines in kolkhozes increased from 6 percent in 1953 to 54 percent in 1958.

Of great significance for an increase in crops and for a further growth in labor productivity was the organization of the extensive production of tractor-mounted agricultural machines, more productive than tractor-drawn machines, cheaper, consuming less metal, and at the same time promoting higher-quality agricultural work. Of the 164,000 tractor plows produced in 1958 by the agricultural machine-building plants, 111,000 were tractor-mounted; of the 177,000 tractor cultivators produced, 132,000 were tractor-mounted.

It is thanks to the organization of the extensive production of row-crop tractors, seeders
for checkrow-cluster sowing, and cultivators that
it became possible to use the checkrow-cluster and
checkrow methods of sowing and planting row crops on
a mass scale, opening a new page in the cultivation
of these crops.

As the result of the better supplying of kolkhozes and sovkhozes with machines, it has become possible to achieve a complex mechanization of production
in which all processes are handled by machines and
mechanisms without exception. After achieving the
complex cultivation of corn and sunflowers, the complex mechanization of cotton and sugar beet cultivation is being effected more and more extensively.

The strengthening of the material technical base in agriculture has enabled the kolkhozes and sovkhozes to make extensive use of such a huge reserve for increasing the yield as inorganic fertilizers. The production and delivery to agriculture of inorganic fertilizers has increased sharply during recent years. In 1958 the production of inorganic febtilizers amounted to 12.4 million tons as compared with 7 million tons in 1953.

Strengthening the Economy of Kolkhozes and Raising the Material Well-Being of the Kolkhozniks

During recent years the Communist Party and the Government have implemented a number of important economic measures intended to restore the Lenin principle of material incentives for kolkhozes and

kolkhozniks to develop the codlective economy of the kolkhoz. It was the violation of this principle which was one of the chief causes for the serious lag in agriculture in the not-too-distant past.

Procurement and purchase prices on the majority los on of agricultural products were increased considerably. The kolkhozes, which had formerly had no incentive to develop certain branches of agriculture since they brought little profit, began to develop them sucessfully. The great importance of this measure in achieving an upsurge in agricultural production can be seen in the example of flax raising. During the war this branch underwent great harm. During the postwar years flax planting was restored slowly. An increase in procurement prices for flax fiber in 1954 increased the incentive for kolkhozes and kolkhozniks to develop flax raising. The agricultural technique of gultivating this crop was considerably improved. The yield of flax fiber increased from 1.3 centners per hectare in 1953 to 2.7 centners in 1958. The gross harvest of flax fiber in 1958 amounted to 438,000 tons as compared with 162,000 tons in 1953.

Of importance in raising the material wellbeing of the kolkhozniks was the abolition of the agricultural tax and of children abolition of the agricultural tax and of obligatory deliveries of agricultural products for farms belonging to kolkhozniks.

workers, and employees.

The material incentive for kolkhozes and kolkhozniks to develop all branches of agriculture was increased to an even greater degree as the result of the conversion to a standard form of state procurement -- to purchases of agricultural products at ment -- to purchases of agricultural products at standard prices differentiated by zones. The elimination of the extreme centralization which had existed and the reorganization of the whole system of agricultural planning gave scope to kolkhoz initiative, and created the conditions necessary for complete utilization of the reserves of collective production.

The increase in the material incentive for kolkhozniks to develop the collectively-owned farm promoted changes in the organization of remuneration in kolkhozes. Having increased the procurement prices, the state organized the payment of advances to kolkhozes against future deliveries of products. White hozes against future deliveries of products. While up to the 1953 monthly and guarterly payment of

advances to kolkhozniks for tabor-days was conducted only in the most progressive kolkhozes, in 1956 this form was already being used in about 70 percent of the kolkhozes.

The strengthening of kolkhozes with management personnel and agricultural specialists is one
of the most important measures implemented by the
Party during recent years in the field of agriculture.
Here are some figures. On 1 June 1953, only 18 percent
of the total number of kolkhoz chairmen had either a
complete higher or a complete secondary specialized
education, and on 1 April 1959 the proportion was
50.4 percent. On this same date, 64,656 agronomists,
46,447 zootechnicians, 49,881 veterinary doctors,
veterinary feldshers and veterinary technicians, and
35,216 engineers and technicians (mechanics) were
working in kolkhozes.

traktornyye stantsii — machine-tractor stations / which took place in 1958, had a prominent role in strengthening the economy of the kolkhozes and further consolidated the union of the worker class and the peasants.

The concentration of all the means for largescale mechanized production in the hands of the kolkhozes created the conditions for the successful accomplishment of the new tasks set by the Seven-Year Plan. From the time of the reorganization of the MIS up to 1 July 1959, the kolkhozes had bought about 610,000 tractors, 247,000 grain combines, and many other machines and tools. They acquired equipment worth a total of about 27 billion rubles. This includes both equipment acquired by the kolkhozes from the MTS and a large amount of new machinery and equipment purchased by the kolkhozes from the warehouses of the RTS / remontho-teknicheskiye stantsii -- equipment-repair stations / Between 1 October 1958 and 1 July 1959 the kolkhozes bought new equipment from the RTS warehouses worth 5 billion rubles. As a result of the strengthening in the kolkhoz economy, kolkhoz cash income increased. The total cash income of kolkhozes increased from 44.8 billion rubles in 1953 to 131.8 billion rubles in 1958. The following date on the distribution of kolkhozes as to amount of cash income per 100 hectares

of agricultural land are of great interest.

DISTRIBUTION OF KOLKHOZES BY AMOUNT OF CASH 19 JODOTO INCOME PER 100 HECTARES OF AGRICULTURAL LAND

All kolkhozes with up to 20,000 rubles cash income per 100 hectral 100 of 100 o

The structure of kolkhoz cash income also changed. While in 1953, 27.5 percent of kolkhoz cash income was obtained from the sale of their products in the form of kolkhoz trade and 65 percent was obtained from deliveries and sales of products to the state and cooperatives, in 1958 the proportion of income obtained from the sale of products at kolkhoz markets had decreased to 12 percent, and the proportion obtained from sales of products to the state and to cooperatives had increased to 82 percent.

The growth in kolkhoz income and the strength ening in their economy improved the well-being of the kolkhoz peasants. In 1958 the peasants real income, per person working, was more than twice that in 1940.

The kolkhozniks are building new houses, are acquiring more and more industrial goods, and are consuming more valuable food products. In 1958 the consumption of meat and fat in kolkhoz families was 87 percent greater than in 1940; the consumption of milk and milk products (in terms of milk) was 64

percent greater; 5.7 times as much sugar was consumed; and 3 times as many confectionery products were consumed.

resent teach land are of great intotable

to simplified and

The great changes which have occurred during recent years in the economy of the kolkhozes and the growth in the material interest of kolkhozes and kolkhozniks in the results of the collective production are most completely expressed in two very soldier dis important indicators: the growth of labor productivity in kolkhozes and the sharp increase in the indivisible funds. In 1958 labor productivity in kolkhozes (the collectively-owned farm) was 72 percent greater than in 1950. The indivisible funds of kolkhozes, constituting the basis of kolkhoz property, amounted in 1958, per kolkhoz, to 1,825,000 rubles as compared with 770,000 rubles in 1953. A further increase in Co. kolkhoz labor productivity and an increase in the indivisible funds are the economic bases for the development and strengthening of kolkhoz production. bout Termi the true

The Expansion of Sovkhoz Production

Sovkhozes have always played an important role in the development of agriculture in the USSR. During the collectivization period the sovkhozes served as a clear example of the advantages of large farms for the tast peasant masses. Sovkhozes are also playing an exceptionally important role at present.

During recent years the Communist Party and the Soviet Government have devoted a great deal of attention to the development and strengthening of sovkhozes.

During 1954-1958 about 1,750 new sovkhozes were established. A large number of new sovkhozes were established during the development of the virgin and fallow lands. In the Kazakh SSR the number of sovkhozes increased from 293 to 807 during these years.

The total sown area in sovkhozes and other state agricultural enterprises in the country increased from 18.2 million hectares in 1953 to 56.9 million hectares in 1958. At present they contain almost one third of all the sown area in the country.

The number of cattle in sovkhozes and other state agricultural enterprises increased during 1954-1958 from 4.3 million to 9.2 million; the number of swine increased from 4.3 million to 9.9 million; and the number of sheep increased from 11.1 million to 27.0 ine Becacher The share of sovkhoz production in the total million. agricultural commodity output in the country is shown below: 12-1 black once in francesh war excitiveing jet The Share of Sovkhoz Output in State Procure Delivered to the State Share of Sovk by Sovkhozes (1,000 tons) spears avad first swift at sandinois and Purchases vol to dies je duktoderg am naeraser (%) . Vir wils in 1953 1958 V 1958 (1953 = 100) 1953 1 1958 The Ust Cricia from Olica there each by an aberian of Grain 3,677.22,460 3 3 611 ori no content xill 9.5 ori si crops cotton Livestock : Autros eleda eja no exceptor on gaw orang RU ast and poul-637, 1,284 11/12222 2000000 01dm25012102 try Milk and leger carriculates no anorgologed and at anacy people milk products (in
terms of
milk) 1,855 5,022 The considerable growth in labor productivity demonstrates the upsurge in sovehoz production. In 1958 labor productivity in sovkhozes was 68 percent greater than in 1950. However, the great new tasks ahead of the sovkhozes during the Seven-Year Plan period require a further improvement in their work. This must be expressed first of all in a more rapid increase in labor productivity and in a reduction in production cost so that all branches of sovkhoz production show

The most important task set by the Party in

the field of the further development of sovkhozes consists in transforming all sovkhozes into model farms in the shortest time possible. I do notific to more

The Economic Competition Between the USSR and the USA in the Field of Agriculture

During all the years of Soviet power, social ist agriculture has developed at more rapid rates soled a rock than agriculture in capitalist countries. The average annual rate of growth of gross agricultural output in the USSR during 1930-1940 and 1946-1958 was 4.7 percent, more than 3 times the average annual rates of growth of gross agricultural output in the US. This gap has increased in recent years now that the rates of development of agriculture in the USSR have speeded up sharply.

During 1954-1958 the production of meat (slaughter weight) increased by an annual average of 6 percent in the USSR and by only 1.7 percent in the US; grain production increased by an average of 11 percent annually in the USSR and by 5.6 percent in the US; milk production increased by 10 percent. in the USSR and by 0.8 percent in the US; wool production increased by 6 percent in the USSR and in the US there was no increase on the whole during this are the period.

The considerable successes achieved during these years in the development of agriculture have enabled the progressive kolkhozes and sovkhozes to set the task (warmly supported by all the Soviet and the soviet people) of achieving such an increase in the output of animal products that the per capita production may

reach that of the US in the near future.

The following table presents comparative results of the development of agricultural production in the USSR and the US during recent years: - trot will be becie avail con Thorn will

Pearo woll OUTPUT OF AGRICULTURAL PRODUCTS IN THE

USSR AND THE US (MILLION TONS) oneth en that all breather of scriffich production and

The control to that the desired the training of the training

```
US
                                                                                           USSR
                                                                87.10
                                                                                                                                        1958
                                                                                                          1958
                                                                             1953
                                                                                                    202
                                                                                                        141.27 Lund86.8 9 Loni 1 Jani
                                                                             82.5
Grain crops
                                                                                                           76.6 4002 39.8 532 30000
                                                                             41.3
     Wheat
                                                                                                                      taidannia di turatair
     All corn (including
                                                                                                                                                                  Tan as
         corn of milky-waxy
                                                                                                    SCL
        maturity in terms
                                                                                              8 16.7
                                                                                                                                     96.5
                                                                                                                                                                     Nodden
                                                                                3.7
      of dry grain)
                                                                                                                                                 (etinul esse
               Completely mature
                                                                                                                                        87.4
                                                                                                           10.2
                                                                              3.7
                  dry grain
                               24000 111419 to 72.616 3/186.5 to 3/12:01 11
Potatoes
Meat (including poultry's descript a.c. of between Feet of al
   meat, fat, and feet and the to no conform warrant to out the
   viscera in slaughter of his more delesty than the act of the set of the policy than the set of the policy than the set of the policy than the 
Butter (factory and whose sligger record to whose of I.Ve of he household production) o nollembers alique record but lab of
   (1,000 tons) cassing ga 497 of aud 778 hooses 685 6 of harmon
Eggs (billion) 2 2 2 . 60 . 60 . 616.1 0 23.1 7 7 . 64.5 21 . 221 0
                                    Ti do lit out for anticular section, some at at any dec
                     In 1958 the Soviet Union was already producing to van
more milk than the US. The USSR had already out- osis
stripped the US in the production of butter in 1957.
As a whole, agricultural output in 1958 was 20-25
percent less than in the US. Saled-lies and his . Vibicoa was
                     The relationships in the per capita output of
agricultural products in the USSR and the US are
                                          out of the most figure section and constructed with the section of the section of
 shown below:
                                    seas in interior backeouteoute a guival quodite tarecete
                     PER CAPITA OUTPUT OF AGRICULTURAL PRODUCTS IN SOURCE STORE
                                            the creation is a the conficient formal builter
                                   when we wall and the USBR and biron bus were solved
                             derion troat trys, assect the derist, the had state to the tall 830fbrs to 830fbrs to 1953 the
                              surn visited by E. S. Khryshener during the dates v
 Grain crops no bederiou435 el vouta 683 de al,073 toca al vide
                              -north of cost 218 or demostrate 229 difframove
       All corn (including went there I tovo must be in some
          corn of milky-waxy words of as meliterap a foreinogerage of
          maturity), (in terms voode a removed man son orders that son of
          ". cyllad ford productly ."
                Completely mature
                   dry grain of a 20 s also 49 mes - 502 by
```

SPATT 1953 1958 1958 CAUL Potatoes 383 418 69 Meat (including poultry, 1911) 3:50 Boots afuso meat, fat, and feet and y J. Hartin viscera; in slaughter Tribulty (1) mass 11 Very 226 to the mass The 1326 tylinder Martin 114 37 weight) 31 Milk 192 284 7.0 3.8 Butter 2.6 dry in and 371, 910000 Eggs (units) 85 111

In 1958 the per capita output of grain crops in the USSR amounted to 63.6 percent of the US level. But the per capita production of wheat in the USSR in 1958 was 61.6 percent greater than in the US. In 1958 the per capita production of milk in the USSR amounted to 87.1 percent of the per capita production in the US, and the per capita production of butter amounted to 97.4 percent. Thus in these indicators the USSR is already very close to the US. The greatest gap is in meat. However, thanks to the high rates of development of socialist animal husbandry, this gap will also be eliminated in the not-too-distant future.

USSR agriculture is expanding production ever to a more rapidly, and the well-being of the Soviet people described is increasing ever more rapidly. Guests from various countries have been coming to the Soviet Union and Land Inchine recently. Each one who becomes familiar with our akovn belov: economy without having a preconceived opinion sees the successes in the development of Soviet agriculture. Very characteristic in this respect is the interview, printed in the American journal United States News and World Report, with the large-scale farmer from Iowa, Roswell Garst, who has visited the Soviet Union more than once and whose farm was in turn visited by N. S. Khryshchev during the latter's stay in America. In this interview, published on 15,0000 girms November 1959 in Pravda, Garst recognizes the advantages of a large farm over a small one. In enswer to the correspondent's question as to whether the kolkhozes and sovkhozes can become as productive as his farm, garst said, "Oh, yes. More than that, I think, yes. 20 they will be more productive."

The Seven-Year Plan sets great tasks for the

further development of all branches of Soviet agriculture. The results of the current agricultural year, the first year of the Seven-Year Plan, are a good beginning. Despite the unfavorable weather conditions in a number of regions, more grain has been harvested this year in the country than was harvested in the best years before the development of the virgin land. Grain procurements and purchases by 1 November 1959 exceeded the average annual procurements during 1949-1953 by 825 million poods. This year's harvest is fully satisfying all the state's needs for agricultural products.

cultural products. The kolkhozes and sovkhozes in the cotton growing regions have achieved outstanding successes in 1959. The annual plan for the sale of cotton was fulfilled on 30 November. The state was sold of bus some for 4,614,000 tons of raw cotton; or 240,000 tons more as seasons than during the whole preceding year, and 761,000 according tons more than was procured in 1953. Our country has never produced such a quantity of cotton during the whole history of cotton growing. The deciding condition for these great successes was the extensive introduction of progressive new methods of cultivating cotton. Checkrow-cluster sowers were used to sow about 1 million hectares in 1959, 50 percent more than in 1958, and the area of cotton sowing cultivated in 2 directions was increased to 1.5 million hectares. This means that it was possible to replace manual cultivation by mechanized cultivation in the major part of the area sown with cotton; of course this permitted improved care for the cotton.

Animal husbandry developed at especially rapid rates during 1959. While in 1953 state purchases of meat amounted to 3.6 million tons, in 1958 they had increased to 5.7 million tons, and in 1959 approximately 7.5 million tons will be purchased. This is over 2 times the 1953 amount. Milk procurements increased to an even greater degree. In 1953 they amounted to 10.6 million tons; and in 1958 to 22.1 million tons; and in 1959 it is intended to purchase 25 million tons of milk, almost 2½ times the 1953 level. The production of butter, amounting to 497,000 tons in 1953, increased to 779,000 in 1958, and in 1959, 845,000 tons of butter

will be produced. Along with the growth in meat procurements, the number of livestock in the country has
continued to increase. In comparison with 1 October
1958, the number of livestock in kolkhozes and sovkhozes on 1 October 1959 had increased by 18 percent
for cattle, including 12 percent for cows, by 19
percent for swine, by 4 percent for sheep, and by 50
percent for poultry.

Our economy s great successes are felt in the and saily life of each Soviet citizen. As the result of the upsurge and strengthening of the economy of all kolkhozes and sovkhozes without exception, the elim-

ination of the lag in economically weak farms, their achievement of the level of progressive farms, the systematic introduction into use of the achievements of science and progressive practice, and a further increase in the output of agricultural products will be achieved in our country and the tasks of the seven-Year Plan will be successfully fulfilled.

5677

never breddeed sech k qualtify of coblod during Fee Thele history of setten ar wing a libe deetling com-

dition for these evolt sideoised as the entitivity of raduction of adoptions for refeels of entitivity of the top. Checkes, Checkes, Checkes, Checkes, Checkes, Industry souces were need to several to several to the top of the last of the could be several of cites south out tives of the last of the last of the could be several to the could b

ud not of a hand bettirted election and for

nationi heaterday leveloped at especially exaptd in less of the end of the en

- 22 -